

Work Order ID 75828

75828

Page 1

Monday, October 31, 2011 3:38:46 PM

Item ID: D3484-042 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: Tail Light Fairing Assembly, RH
 Start Date: 11/1/2011 Start Qty: 10.00 ***10*** Cust Item ID:
 Required Date: 11/22/2011 Req'd Qty: 10.00 ***10*** Customer:
 Reference:

Approvals: Process Plan: MVF Date: 11-10-31 Tooling: Date: Run Start ***NR1***
 QC: Date: SPC (Y/N): Date: Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3484	Rev F

100 0.00
100
 Purchasing Memo 0.00
 Purchasing Issue P/O: 15317
 Make as per Dwg D3484
 Material release note is required

CL 11/1/01 (10)

110 0.00
110
 Packaging Memo 0.00
 Packaging

CL 11/1/01 (10)

115 0.00
115
 Large Fab Memo 0.00
 Large Fab ***Touch up weld if necessary***

[Handwritten signature]

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC9- Inspect visual per QS1004- Fusion Welds	0.00							
120									
QC	Memo	0.00							
Quality Control									
130	QC6- Inspect dimensions to drawing	0.00							
130									
QC	Memo	0.00							
Quality Control									
140	Chemical Conversion Coat per QS1005 4.1	0.00							
140									
HandFinish	Memo	0.00							
Hand Finishing									

11.12.05

5 ulizlos

10 11.12.05

W/O:		WORK ORDER CHANGES					
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--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

150	QC3- Inspect Part Finish	0.00							
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150

QC

Memo

Quality Control

160

160

Small Fab

Memo

Small Fab

I-Install Nut Plates as per Dwg D3484

170

QC5- Inspect part completeness to step on W/O

170

QC

Memo

Quality Control

10X of M-11/12/05

11/12/06 (10)

(10)
RM

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Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

180 White Gloss(Ref:4.3.5.1) per QSI005 4.3-Alum 0.00

180

Powdercoat

Powder Coating

Memo

START TIME:

OVEN TEMPERATURE:

FINISH TIME:

9:30
320 OF
10:00

10X M-L 11/12/07

190 QC3- Inspect Part Finish 0.00

190

QC

Quality Control

Memo

0.00

10 BL 11-12-7.

200 0.00

200

Packaging

Packaging

Memo

Identify as per dwg and Stock

Location:

Identify on inside surface as indicated

TCCA-PDA,DART AEROSPACE LTD

P/N:D412-750-142 B/N:BXXXXX

FOR PRODUCT ELIGIBILITY SEE PDA06-13

10X SP 11-12-07.

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

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QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
210	QC5- Inspect part completeness to step on W/O	0.00							
210									
QC	Memo	0.00							
Quality Control									
220	QC21- Final Inspection - Work Order Release	0.00							
220									
QC	Memo	0.00							
Quality Control									

11/12/07

11-12-07

W/O:		WORK ORDER CHANGES					
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Picklist Print

Monday, October 31, 2011 3:38:46 PM

Page 1

Work Order ID: 75828

Parent Item: D3484-042

Parent Item Name: Tail Light Fairing Assembly, RH

Start Date: 11/1/2011

Required Date: 11/22/2011

Start Qty: 10.00

Required Qty: 10.00

Comments: IPP Rev:A New Issue 06-05-23 EC
IPP Rev:B 08-01-24 chg rivet for CR1122-3-025 DD vef:EC IPP Rev:C 11.03.07 added weld touch up DD vef:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
D3484-042P		Purchased	No			110	Each	0.0000	1	10			
Tail Light Fairing													
CR1122-3-02.5		Purchased	No			160	Each	100.0000	4	40			
RIVET													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST336		100							
				118677		100							
MS21069-04		Purchased	No			160	Each	46.0000	2	20			
ANCHOR NUT													
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				ST302		46							
				116823		46							

cup/stp (10)
EP 11/12/06

EP 11/12/06

~~11/18/06~~

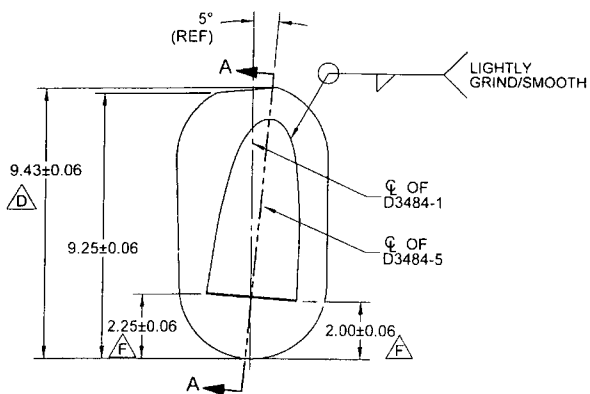
W/O:		WORK ORDER CHANGES					
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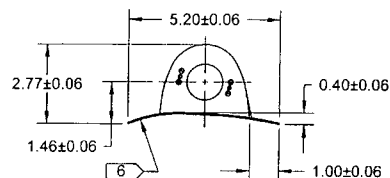
Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

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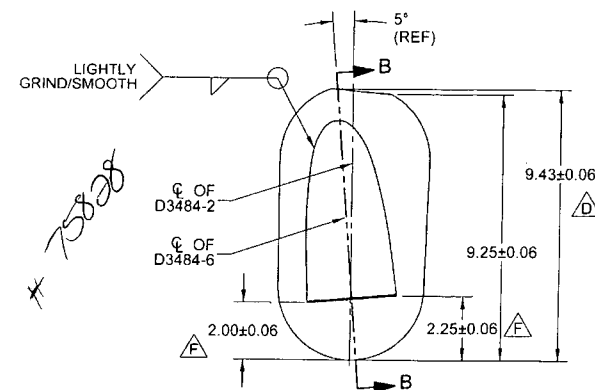


QTY -041	QTY -042	P/N	DESCRIPTION
X		D3484-041	TAIL LIGHT FAIRING ASSEMBLY (LH)
	X	D3484-042	TAIL LIGHT FAIRING ASSEMBLY (RH)
1		D3484-1	BASE (LH)
	1	D3484-2	BASE (RH)
1		D3484-3	FACE (LH)
	1	D3484-4	FACE (RH)
1		D3484-5	CONE (LH)
	1	D3484-6	CONE (RH)
4	4	CR1122-3-02.5	RIVET
2	2	MS21069-04	ANCHOR NUT

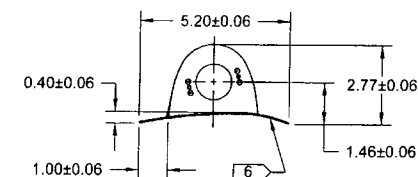


SECTION A-A

D3484-041 TAIL LIGHT FAIRING

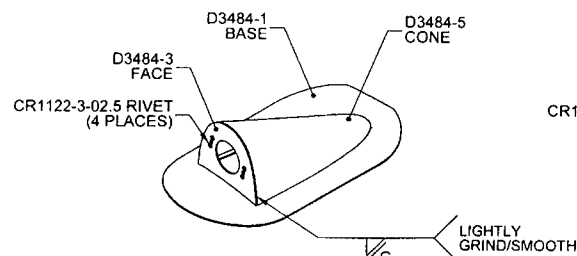


INSTALL MS21069-04
ANCHOR NUT
(2 PLACES)

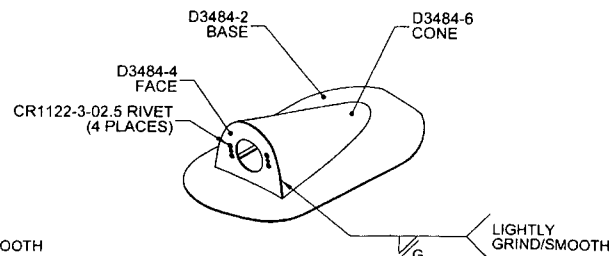


SECTION B-B

D3484-042 TAIL LIGHT FAIRING



D3484-041 ISOMETRIC VIEW



D3484-042 ISOMETRIC VIEW

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) WELDING: PER DART QSI 004
- 6) IDENTIFICATION: IDENTIFY ON INSIDE SURFACE AS INDICATED WITH WHITE LABEL:
"TCCA-PDA, DART AEROSPACE LTD., P/N D412-750-141-142 B/N BXXXXX, FOR PRODUCT ELIGIBILITY SEE PDA06-13"
- 7) WEIGHT: 0.30 lbs

RELEASED
09/27/2009

F	UPDATE MATERIAL SPEC. ADD 6061-0, ZN A7-2, A7-3, B3-4, UPDATE DIMENSIONS ZN C1-1, C2-1, C7-1, C8-1 UPDATE WELDING NOTE ZN A3-1, A6-1		09.03.31
E	REDRAW/REFORMAT TO SHOW LH AND RH CONFIGURATIONS FOR CLARITY; CORRECT VIEWS ON SHEET 3 & 4 (WAS SHOWING MIRROR IMAGE OF PARTS); DIM 1.560 WAS 1.563 (SHEET 3, ZONE B4); CR1122-3-02.5 RIVET WAS MS20426AD3-3 RIVET	MB	08.01.03
D	CORRECT D3484-1F	MB	06.06.22
C	RE-DESIGN D3484-3F/5F	MB	06.04.20
B	RE-DESIGN	MB	06.02.21
A	NEW ISSUE	MB	05.11.29
REV.	DESCRIPTION	BY	DATE
DESIGN			
DRAWN			
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	09.03.31		

DART AEROSPACE LTD
HAWKESBURY, ONTARIO, CANADA

DRAWING NO.
D3484

REV. F
SHEET 1 OF 4

TITLE
TAIL LIGHT FAIRING

SCALE
1:4

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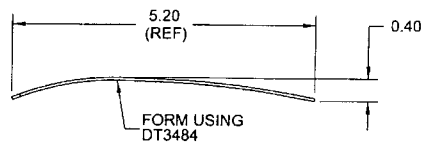
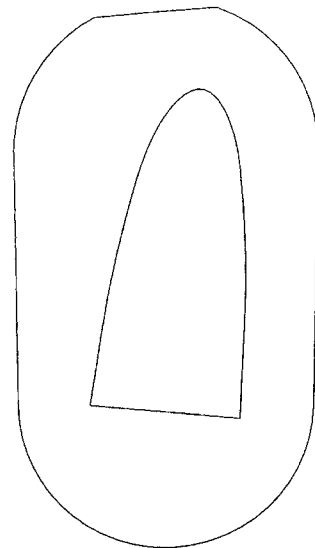
W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

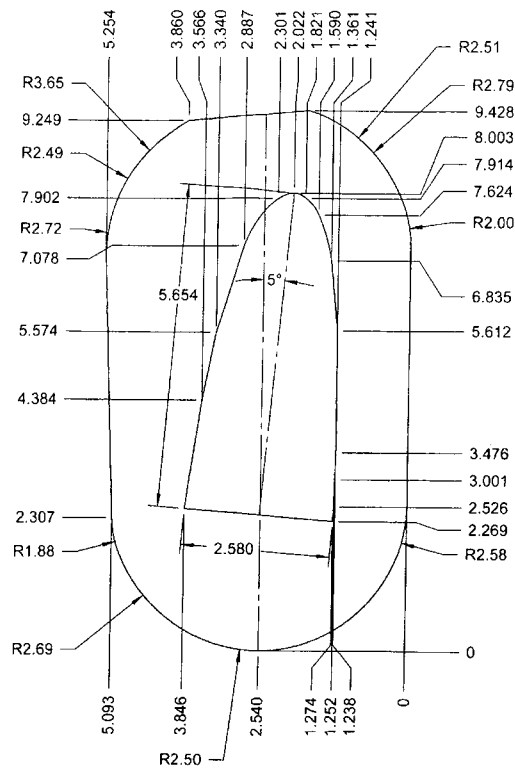
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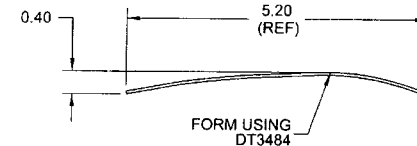
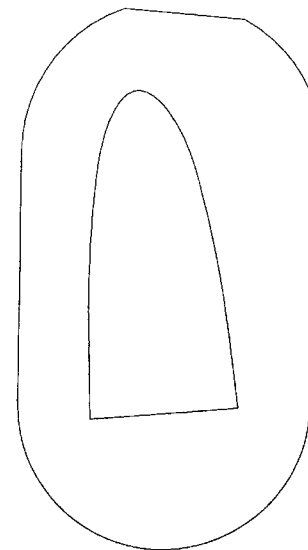


D3484-1 BASE
(MAKE FROM D3484-1F)

- NOTES:**
- 1) MATERIAL: 6061-O ALUMINUM SHEET 0.050 THICK
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
OR
6061-T6 (OR 6061-T62) ALUMINUM SHEET 0.050 THICK
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
(REF. DART SPEC. M6061T6S.050)
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 0.16 lbs



D3484-1F BASE FLAT PATTERN



D3484-2 BASE
(MAKE FROM D3484-1F)

RELEASED
07/01/24

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. F
MFG. APPR.		D3484	SHEET 2 OF 4
APPROVED		TITLE	SCALE
DE APPR.		TAIL LIGHT FAIRING	1:2
DATE	09.03.31	<small>COPYRIGHT © 2004 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	

W/O:		WORK ORDER CHANGES					
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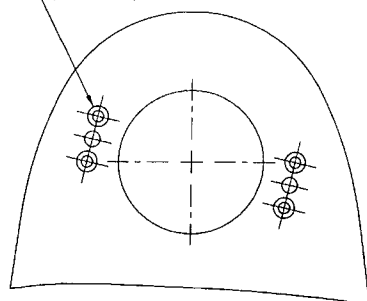
Part No: _____ PAR #: _____ Fault Category: _____ NCR: Yes No DQA: _____ Date: _____

Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

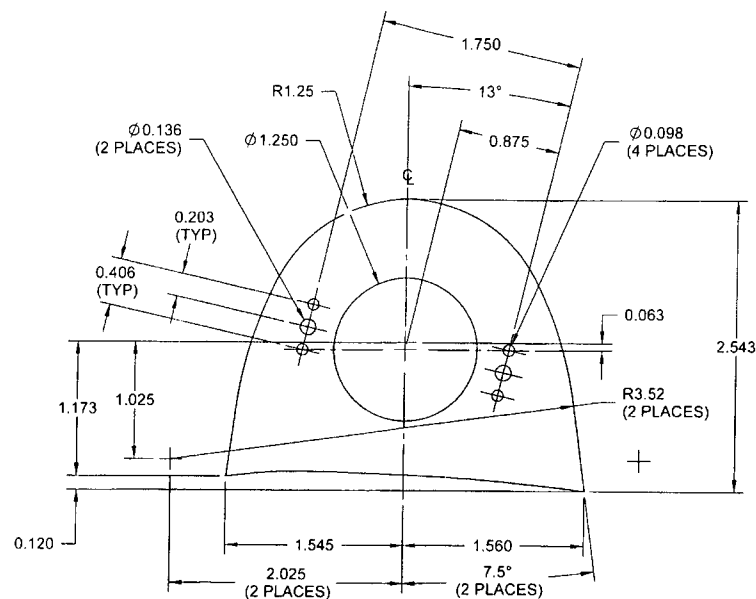
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NOTE: Date & initial all entries

C'SINK
Ø 0.181 X 100°
(4 PLACES)



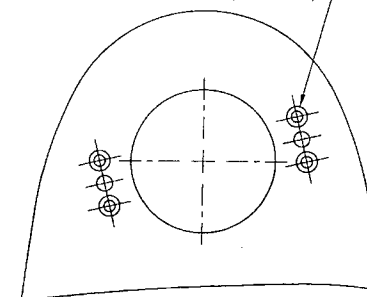
D3484-3 FACE
(MAKE FROM D3484-3F)



D3484-3F FLAT PATTERN TAIL LIGHT FAIRING

75828

C'SINK
Ø 0.181 X 100°
(4 PLACES)









D3484-4 FACE
(MAKE FROM D3484-3F)

NOTES:

- 1) MATERIAL: 6061-T6 ALUMINUM SHEET 0.050 THICK
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
OR
6061-T6 (OR 6061-T62) ALUMINUM SHEET 0.050 THICK
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
(REF. DART SPEC. M6061T6S.050)
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.02 lbs

RELEASED
09/03/31

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. F
MFG. APPR.		D3484	SHEET 3 OF 4
APPROVED		TITLE	SCALE
DE APPR.		TAIL LIGHT FAIRING	1:
DATE	09.03.31	COPYRIGHT © 2005 BY DART AEROSPACE LTD	
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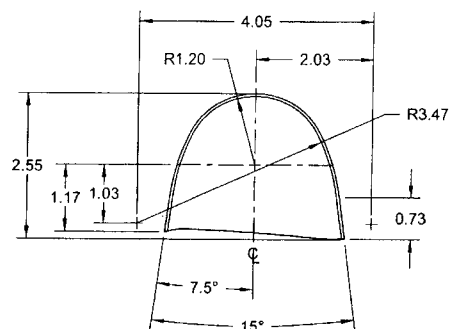
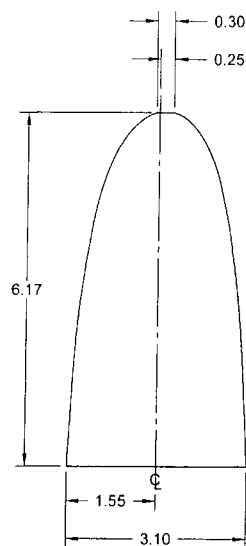
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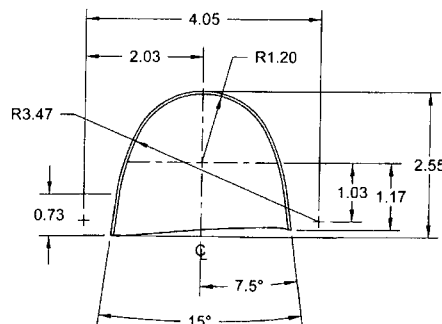
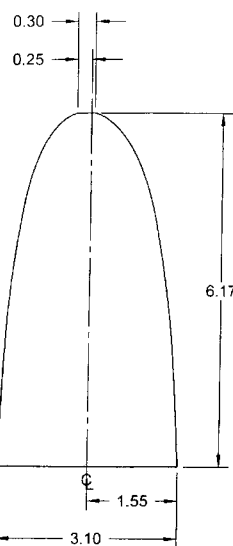
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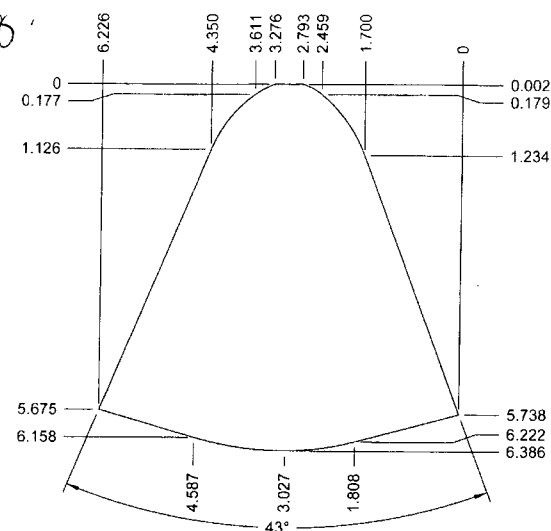


D3484-5 CONE
(MAKE FROM D3484-5F)



D3484-6 CONE
(MAKE FROM D3484-5F)







75808



D3484-5F CONE FLAT PATTERN

- NOTES:**
- 1) MATERIAL: 6061-O ALUMINUM SHEET 0.050 THICK
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
OR
6061-T6 (OR 6061-T62) ALUMINUM SHEET 0.050 THICK
PER AMS-QQ-A-250/11 OR AMS 4025 OR AMS 4027
(REF. DART SPEC. M6061T6S.050)
 - 2) FINISH: N/A
 - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
 - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
 - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
 - 6) IDENTIFICATION: N/A
 - 7) WEIGHT: 0.11 lbs

RELEASED
09/04/24

DESIGN		DART AEROSPACE LTD	
DRAWN		HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. F
MFG. APPR.		D3484	SHEET 4 OF 4
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Resolution: _____ Disposition: _____ QA: N/C Closed: _____ Date: _____

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

NOTE: Date & initial all entries



Dart Aerospace Ltd.
1270 Aberdeen Street
Hawkesbury, ON K6A 1K7
Tel: 613 632 9577
Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID **PO15317**

Purchase Order Date 11/01/11

PO Print Date 11/01/11

Page Number 1 of 1

Order From :

VC-GFI001

GFI
180 AVENUE LABROSSE
POINTE CLAIRE, QC H9R 1A1
CA

Contact Name

Vendor Phone

514 630 4877

Vendor Fax

514 630 4849

Vendor Account Nbr

Buyer

Chantal Lavoie

Requisition Nbr

Tax Resale Nbr

10127-2607

Terms

Net 30

Currency

CAD

FOB

Destination-Collect

Ship To :

DART AEROSPACE LTD

1270 ABERDEEN
HAWKESBURY, ON K6A 1K7
CANADA

REVISED
-\$

Line Nbr	Reference Revision ID Vendor Part Number	Description/ Mfg ID	Req Date/ Taxable	Req Qty/ Unit of Measure	Ship Method	Unit Price	Extended Price
1	D3484-041P	Tail light Fairing	11/22/11 Yes	10.00 Each	FedEx Priority F	\$280.0000	\$2,800.00

Special Inst:

AS PER DWG D3484 REV. F
B75827
FORMED & WELD AS PER QSI 005
CHEMICAL CONVERSION, NUTPLATE
AND POWDER COAT
TO BE DONE AT DART

2	D3484-042P	Tail Light Fairing	11/22/11 Yes	10.00 Each	FedEx Priority F	\$280.0000	\$2,800.00
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MATERIAL CERTIFICATION
REQ'D UPON DELIVERY

Special Inst:

AS PER DWG D3484 REV. F
B75828
FORMED & WELD AS PER QSI 005
CHEMICAL CONVERSION, NUTPLATE
AND POWDER COAT
TO BE DONE AT DART

PO Total:

\$5,600.00

Change Nbr:

3

Change Date: 11/01/11

No substitution or deviation without
consent.
Certificate of Conformity or Material
Certification required where applicable



180 AVENUE LABROSSE
POINTE-CLAIRE, QC, CANADA H9R 1A1
TÉL.:(514) 630-4877 - FAX:(514) 630-4849

GFI est une division de Thomas & Betts Fabrication Inc. / GFI is a division of Thomas & Betts Manufacturing Inc.



BON DE LIVRAISON / SHIPPING MEMO

DATE DE LIVRAISON / SHIPPING DATE			N° DE BON DE LIVRAISON / SHIPPING MEMO NO		PAGE
JR - DY	MO - MO	AN - YR			
01	12	11	0475298		1/1



VENDU À / SOLD TO

EXPÉDIÉ À / SHIP TO

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON
K6A 1K7

CODE DE CLIENT / CUSTOMER CODE	N° DE CONTRAT / JOB NO	VOTRE N° DE COMMANDE / YOUR PURCHASE ORDER NO	EXPÉDIÉ PAR / SHIP VIA
DART GFI-0299	0239350	PO15317	

QUANTITÉ / QUANTITY	N° DE PIÈCE / PART NO	DESCRIPTION
10	D3484042P	TAIL LIGHT FAIRING CERTIFICATE OF CONFORMANCE REQ
MFG. JOB# <u>J0239350</u> QTY <u>10</u> pcs.		



EXPÉDITEUR / SHIPPER	N° DE BON DE LIVRAISON / SHIPPING MEMO NO



REÇU PAR / RECEIVED BY

DATE

TOUTES LES RÉCLAMATIONS DOIVENT ÊTRE FAITES EN DEDANS DE 5 JOURS DE LA RÉCEPTION.
ALL CLAIMS MUST BE MADE WITHIN 5 DAYS OF RECEIPT OF GOODS.

CERTIFICATE OF COMPLIANCE CERTIFICAT DE CONFORMITE



Membre de / A Member of **Thomas & Betts**

180 LABROSSE AVENUE
POINTE CLAIRE, QC
H9R 1A1

DART AEROSPACE LTD
1270 ABERDEEN ST.
HAWKESBURY, ON K6A 1K7

CERTIFICATE NO. <u>6</u>		OUR JOB NO <u>J0239350</u>		SHIPPING MEMO <u>0475298</u>	
ITEM	QUANTITY	PURCHASE ORDER	PART NUMBER	REV	NAME
<u>1</u>	<u>10 PCS</u>	<u>PO15317</u>	<u>D3484042P</u>	<u>F</u>	<u>TAIL LIGHT FAIRING</u>
MATERIAL		SUPPLIED BY		MAT. REL. NO.	
<u>AL 6061-T0 (AMS-QQ-A-250/11)</u>		<u>TW METALS / KAISER ALUMINUM</u>		<u>534454A4</u>	

	PROCESS	PROCESSOR	RELEASE NOTE #
1	<u>FIRST ARTICLE INSPECTION REPORT ON FILE</u>	<u>GFI</u>	<u>N/A</u>
2	<u>REF. GFI MANUFACTURING JOB NUMBER J0239350-001 (10 PCS)</u>		
3			
4			
5			
6			
7			
8			
9			

WE HEREBY CERTIFY ALL THE PARTS COVERED BY THIS CERTIFICATE HAVE BEEN MANUFACTURED FROM MATERIAL SUPPLIED ON RELEASE NOTE SHOWN ABOVE AND THAT ALL PARTS HAVE BEEN INDIVIDUALLY INSPECTED AND CONFORM TO THE DRAWINGS AND PURCHASE ORDER REFERENCED ABOVE.

DATE 01 DECEMBER 2011

G.F.I. Q.C. REP. *[Signature]*





PACKING SLIP

ORDER NO.: 70461145 FROM: ATLA PAGE 1

CUST NUMBER: 1203148 NET WGT: 68.660 REQ. DATE: 11/18/11 CONFIRMED
SOLD TO: SHIP TO:
GFI INC GFI INC
180 AVE. LABROSSE 180 AVE LABROSSE
POINTE CLAIRE QC PIONTE CLAIR QC
CANADA CN H9R 1A1 CANADA CN H9R 1A1

SALESPERSON: DEANNA PIMM DISTRICT: ATLANTA
TERMS: 1% 10 NET 30 VIA: ROADWAY EXPRES
F.O.B.: SHIPPING POINT FREIGHT: COLLECT
CUST ORD NO.: 0079522 RELEASE NO.:
RECEIVING PHONE: 514 630-4877

LINE ITEM DESCRIPTION WIDTH LENGTH

0001 76409 60610 ALM SET STENCILLED .0500 48 144
QTY: 2.000 EA WT: 68.660 PC: 2 SHP: 68.660 LB

PART#: AS05148144PM

** 1 TEST REPORTS REQUIRED **

** 1 CERTS REQUIRED **

ECCN: EAR99 Export License: NLR Expiration Date: 0/00/00

PO: 49245464 HT: 534454A4 PC: 2 SLB/CL: KAISER* 34.33# EA*

MLT: UNITED STATES MFG: UNITED STATES

SHIP VIA EMERY DEFERED ACCT# 543483804 OR YELLOW COLLECT
CLEAR CUSTOMS THRU CONSIGNEE'S BROKER: DHL GLOBAL FORWARDING

next page
8

BACK INFO



PACKING SLIP

ORDER NO.: 70461145 FROM: ATLA PAGE 2

CUST NUMBER: 1203148 NET WGT: 68.660 REQ.DATE: 11/18/11 CONFIRMED
SOLD TO: SHIP TO:
GFI INC GFI INC
180 AVE. LABROSSE 180 AVE LABROSSE
POINTE CLAIRE QC PIONTE CLAIR QC
CANADA CN H9R 1A1 CANADA CN H9R 1A1

SALESPERSON: DEANNA PIMM DISTRICT: ATLANTA
TERMS: 1% 10 NET 30 175 TUBEWAY
F.O.B.: SHIPPING POINT FOREST PARK GA 30297
CUST ORD NO.: 0079522
VIA: ROADWAY EXPRES
FREIGHT: COLLECT
RELEASE NO.:
RECEIVING PHONE: 514 630-4877

"TW Metals MSDS data is available on our web site at www.twmetals.com. MSDS data can be found under the Technical Resources Tab, Product Statistics & Data and the TW Metals MSDS's heading. If you do not have web site access you may telephone 610-458-1300 and we will mail or fax a copy of our current MSDS data to your location."

"CERTIFICATE OF CONFORMANCE"

next page →

"TW Metals certifies that the material supplied on this purchase order and contained in the heat/lot number referenced above has been manufactured, inspected, and tested in accordance with the material specification. These records are on file at TW Metals. Packaging material for shipments to Europe and China consists of manufactured wood products and complies with the European emergency measures for coniferous non-manufactured wood packing material"

Electronically Generated Certificate-Valid without signature Date: 11/16/11

These commodities have been exported from the United States in accordance with the U.S. export control laws, export administrations regulations. Diversion contrary to U.S. law prohibited.

THANK YOU FOR THIS ORDER

TERMS AND CONDITIONS APPLICABLE TO THE SALE OF THESE PRODUCTS ARE SET FORTH ON THE REVERSE SIDE FOR YOUR CAREFUL REVIEW.

SHIP TO:

TW METALS
1200 BLAKE DRIVE
WICHITA, KS 67219

KAISER ALUMINUM

Trentwood Works - Spokane, WA 99215
Phone: (800) 367-2586

SOLD TO:

TW METALS INC
THE ARBORETUM
760 CONSTITUTION DRIVE
EXTON, PA 19341

CERTIFIED TEST REPORT

Serial Number
4214878

CUSTOMER PO NUMBER: M49245464		WORK PACKAGE:		CUSTOMER PART NUMBER: 76409		SHIP RUN/LOAD: 101963/6		GOV'T CONTRACT NUMBER:	
KAISER ORDER NO: 1108985	LINE ITEM: 1	SHIP DATE: 11-JAN-2011	ALLOY: 6061	CLAD: BARE	TEMPER: O	PRODUCT DESCRIPTION: HT Flat Sheet			
WEIGHT SHIPPED: 8942 LB	QUANTITY: 261 PCS EST.	B/L NUMBER: 2030402	GAUGE: 0.0500 IN		DIAMETER/WIDTH: 48.000 IN		LENGTH: 144.000 IN		

5/12/05

Certified Specifications

AMS 4025/RevL
CMMP 025/RevT

ASTM B 209/Rev07

CMMP 019/RevD

Test Code: 1925

Test Results

Lot: 534454A4 Cast 806

Drop 75

Ingot 1

(ASTM E8/B557)

(EN 2002-1)

Tensile:	Temper	Dir / # Tests	Ultimate KSI (MPA)	Yield KSI (MPA)	Elongation %
	O	LT / 2 (Min:Max)	19.2 : 19.2 (132 : 132)	7.3 : 7.4 (50 : 51)	27.8 : 28.5
	T42	LT / 2 (Min:Max)	36.5 : 37.7 (252 : 260)	17.4 : 17.8 (120 : 123)	23.1 : 23.9
	T62	LT / 2 (Min:Max)	50.1 : 51.1 (345 : 352)	41.7 : 43.8 (288 : 302)	13.1 : 13.6

(ASTM E1251)

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER
Actual	0.73	0.6	0.32	0.08	1.0	0.19	0.12	0.02	0.01	0.00	TOT 0.05

ALLOY LIMITS

Chemistry:	SI	FE	CU	MN	MG	CR	ZN	TI	V	ZR	OTHER	MAX
6061 MIN	0.40	0.0	0.15	0.00	0.8	0.04	0.00	0.00	0.00	0.00	EACH	0.05
MAX	0.8	0.7	0.40	0.15	1.2	0.35	0.25	0.15	0.05	0.05	TOT	0.15

Aluminum Remainder

